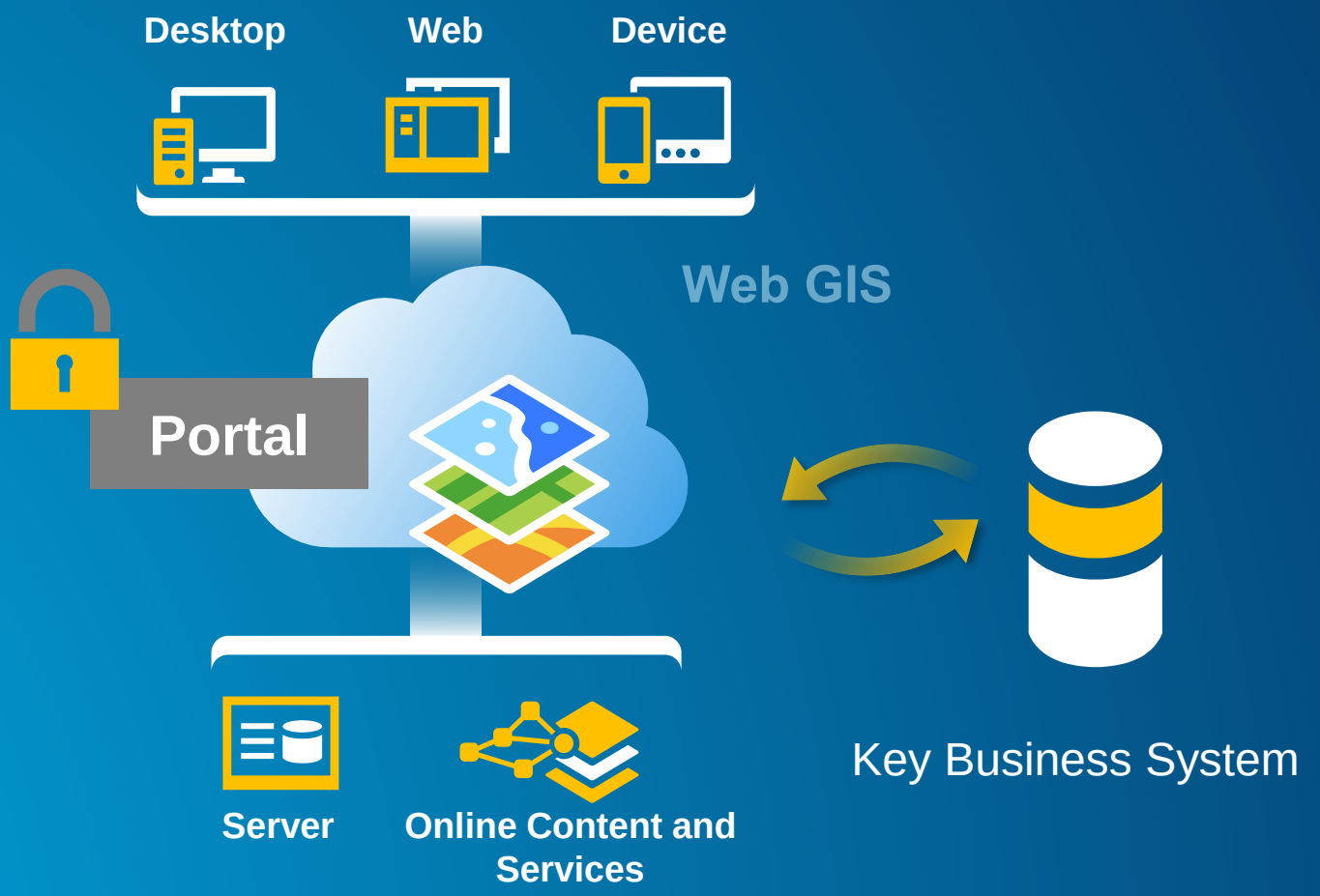
Optimizing Operations With ArcGIS Apps

TJ Abbenhaus

Todays Objectives

- Introduce real world mobile workflows with ArcGIS Platform
- Show and implement mobile COTS solutions that meet your business objectives
- Use of geographic data for real-time monitoring and key performance indicators
- Learn about and implement mobile solutions to engage citizens

Enabling Mobile Workflows with ArcGIS



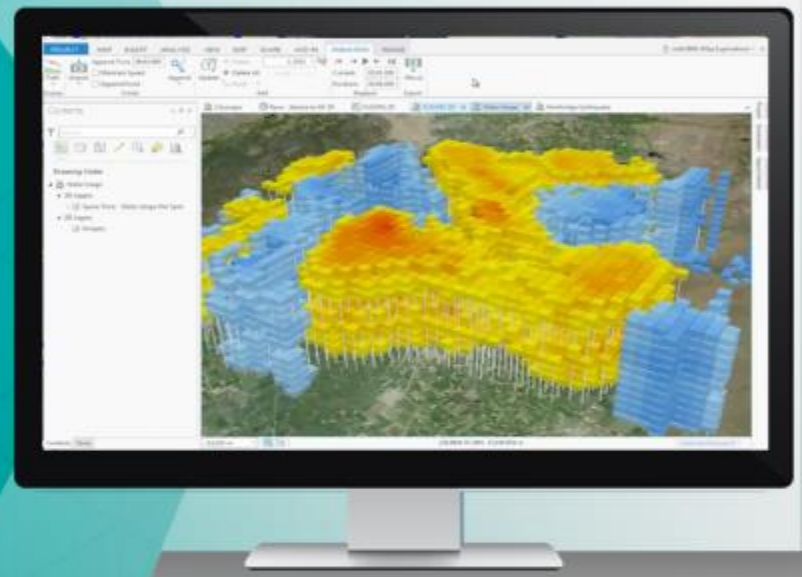
Providing mapping, analysis, data management, and collaboration

Objectives

- **Field Operations:**
  - Plan
  - Coordinate
  - Navigate
  - Capture
  - Monitor

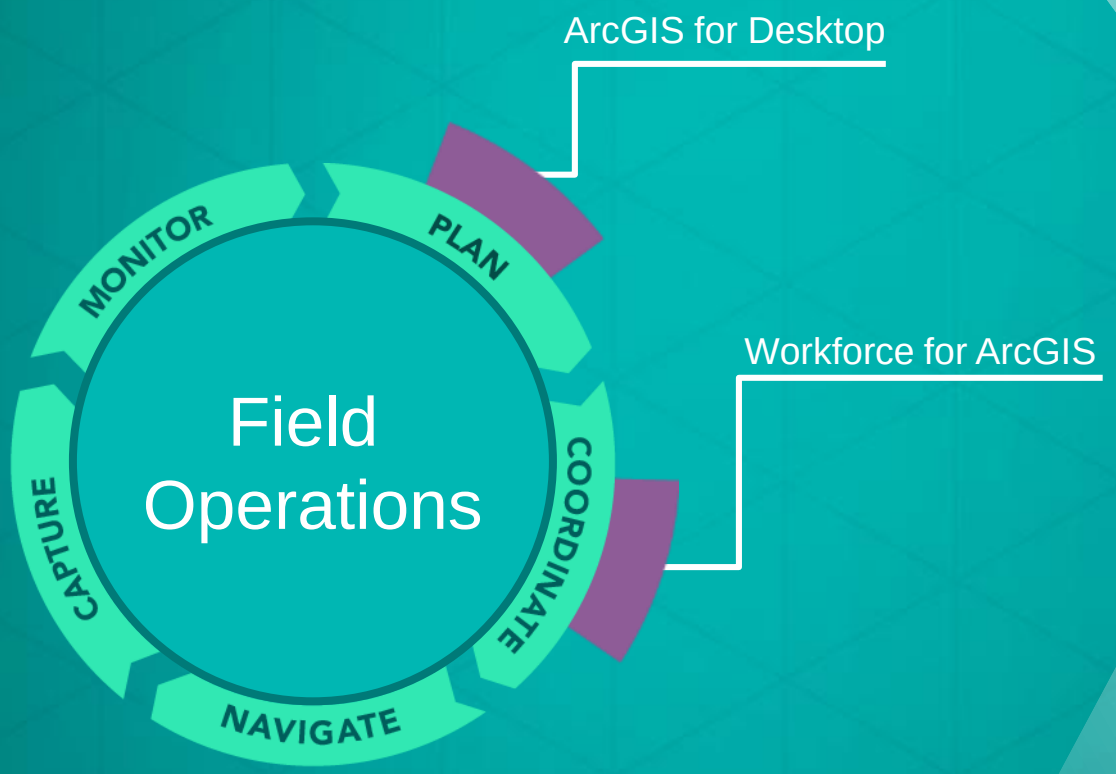
Optimizing Field Operations With ArcGIS

ArcGIS for Desktop



Analysis

Workforce for ArcGIS



Dispatcher
Assigns Work

Field Workers
Receive Assignments

Work as a Team

New!

Workforce for ArcGIS

- **workforce.arcgis.com**
- **Two basic components:**
  - **Back-office: Dispatcher**
  - **Field app: Mobile worker**
- **Work as a Team**

Dispatcher
Assigns Work

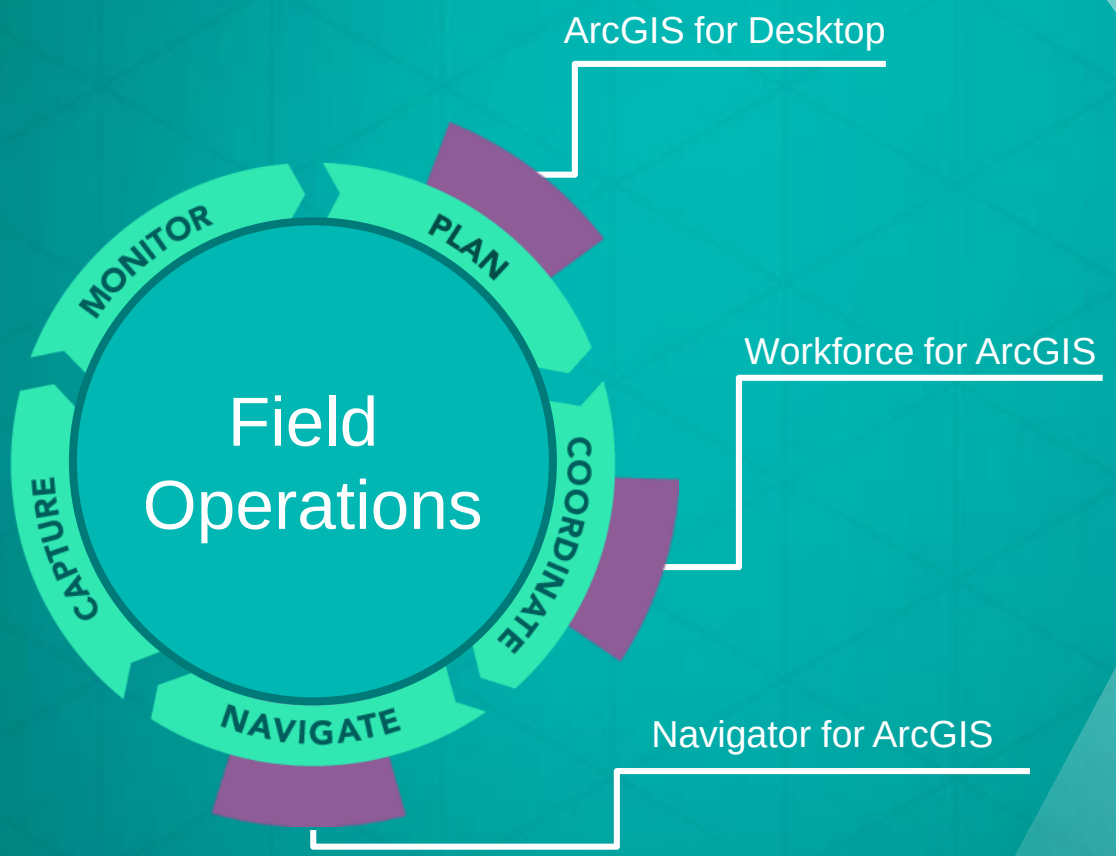
Field Workers
Receive Assignments

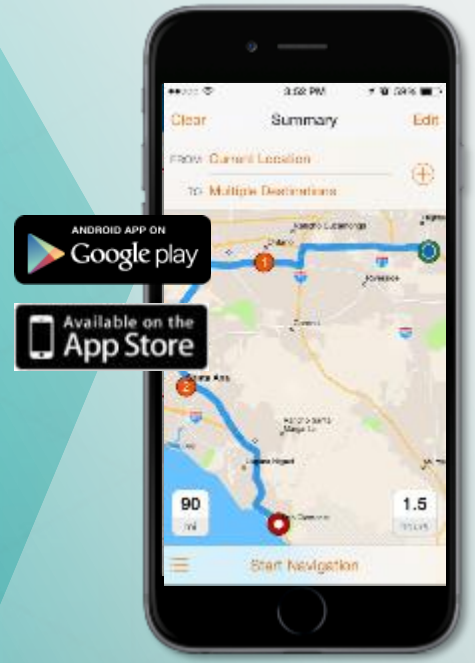
Work as a Team

New!

http://workforce.arcgis.com

Navigator for ArcGIS



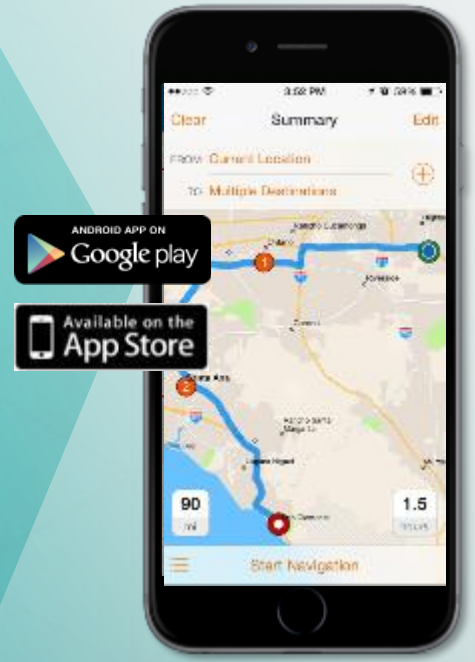


App-Link API

Your Own Maps

Navigator for ArcGIS

- esri.com/products/navigator
- Street Data Included
- You can load your own too
- Works offline
- App-Link API



http://www.esri.com/navigator

Collector for ArcGIS

Map Centric Data Collection

Windows Support

High Accuracy

http://www.esri.com/collector

Survey123 for ArcGIS

ArcGIS for Desktop

Workforce for ArcGIS

Navigator for ArcGIS

Survey123 for ArcGIS

Collector for ArcGIS

Smart Forms

New!

Source Code Available

http://survey123.arcgis.com

Operations Dashboard

Operations Dashboard

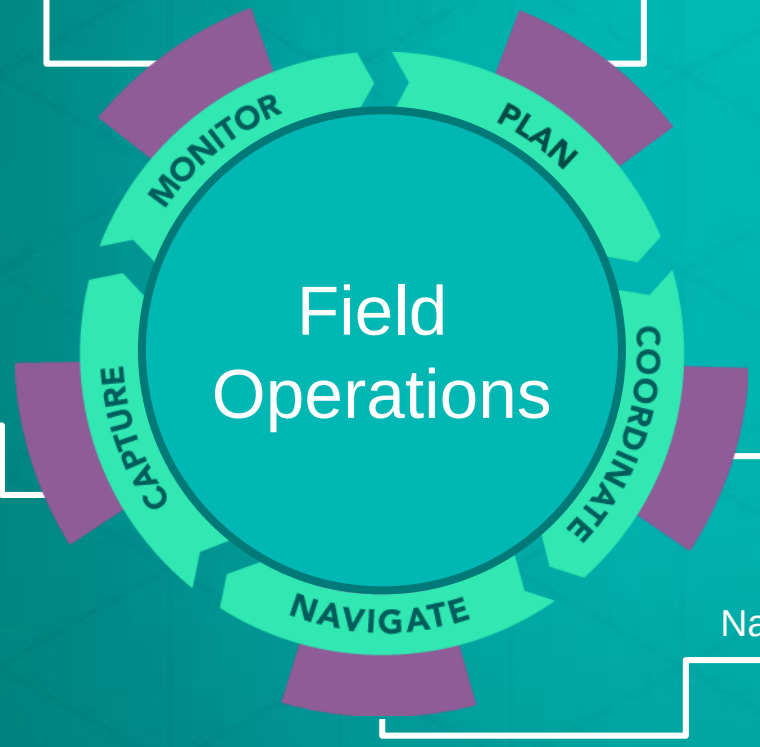
ArcGIS for Desktop

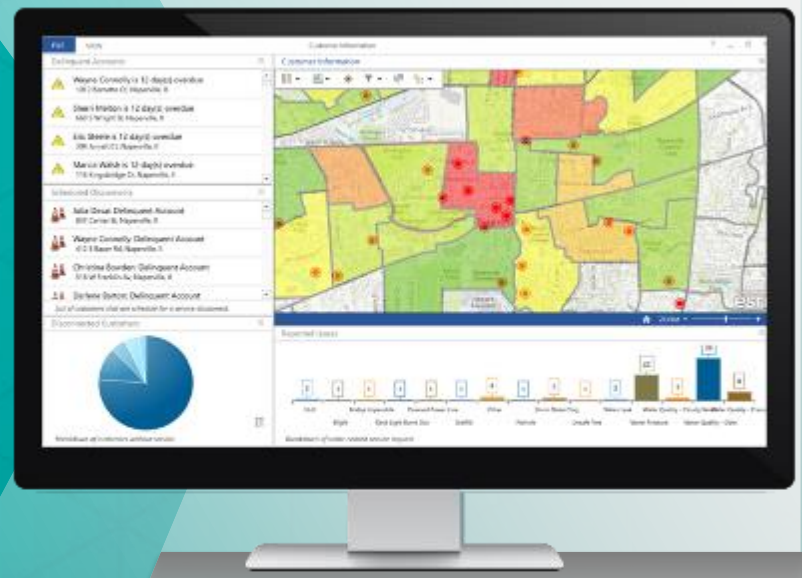
Workforce for ArcGIS

Survey123 for ArcGIS

Collector for ArcGIS

Navigator for ArcGIS





Real-Time Monitoring

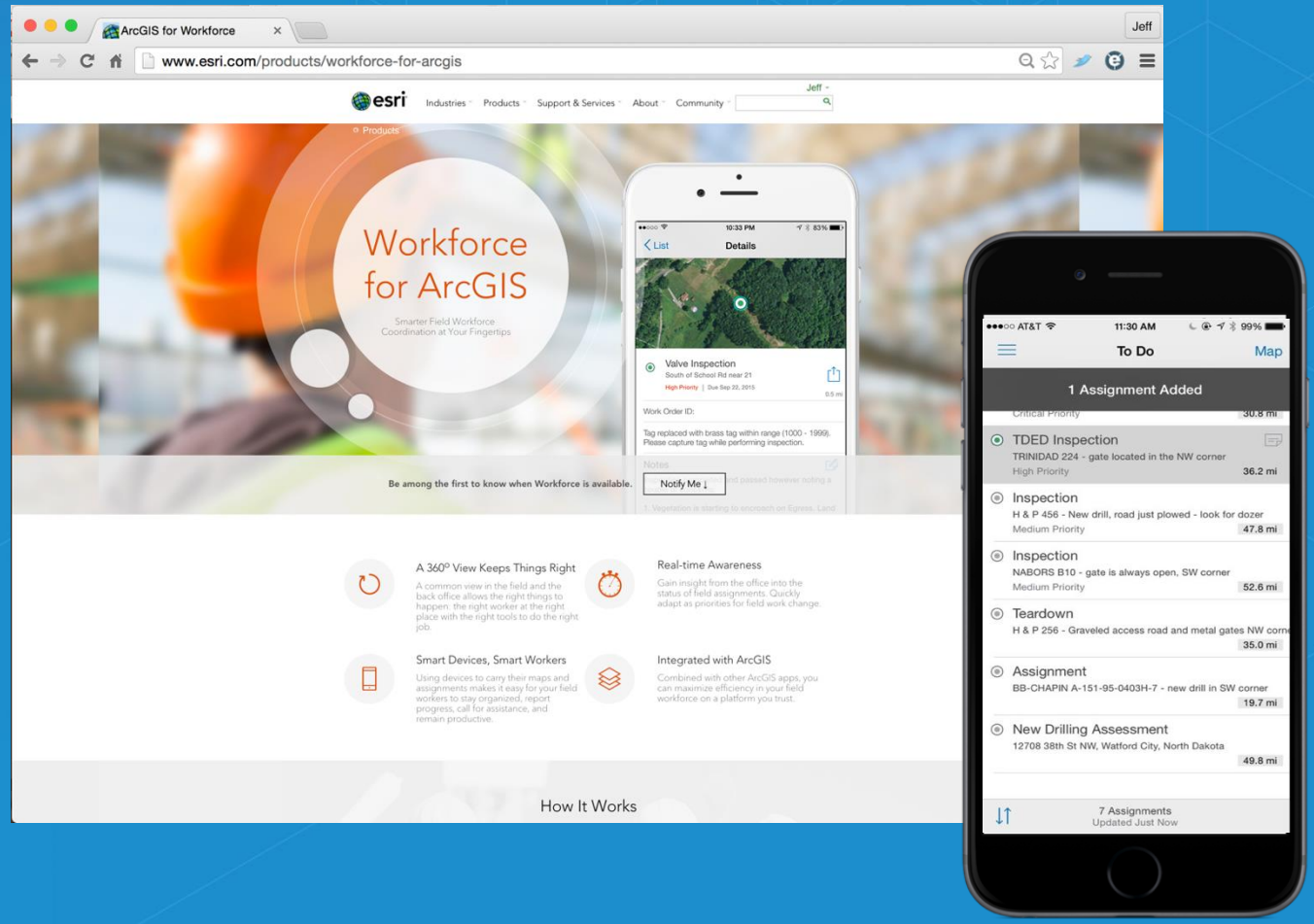
Key Performance Indicators

Next Generation

http://www.esri.com/dashboard

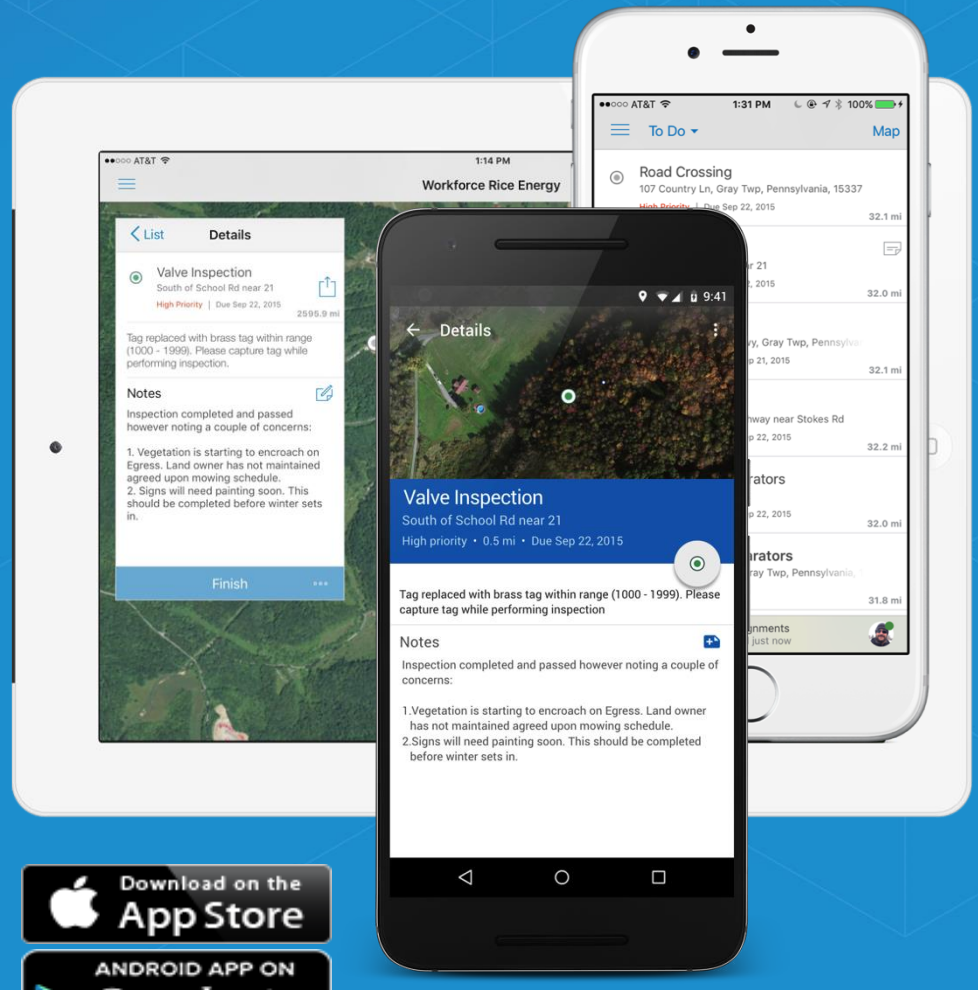
Workforce for ArcGIS| Coordinating field to office workflows

- Field workforce optimization
- Efficiently plan and assign work
- Receive assignments and report status from the field



Workforce for ArcGIS | Coordinate

- View and complete work assignments
- Organize your work list
- Receive notifications
- Set your working status
- Add and edit notes
- View referenced attachments



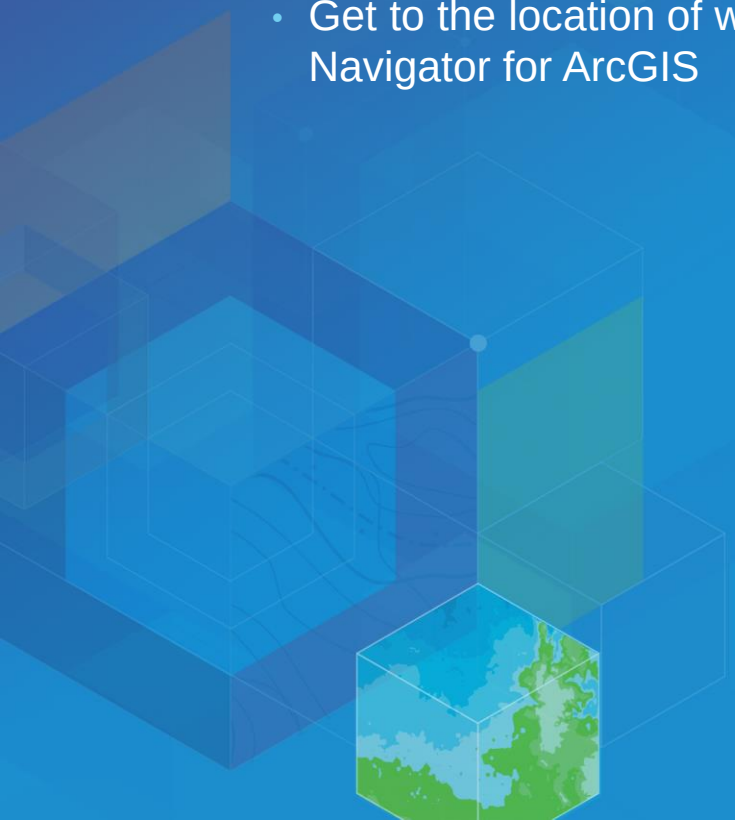
Download on the App Store

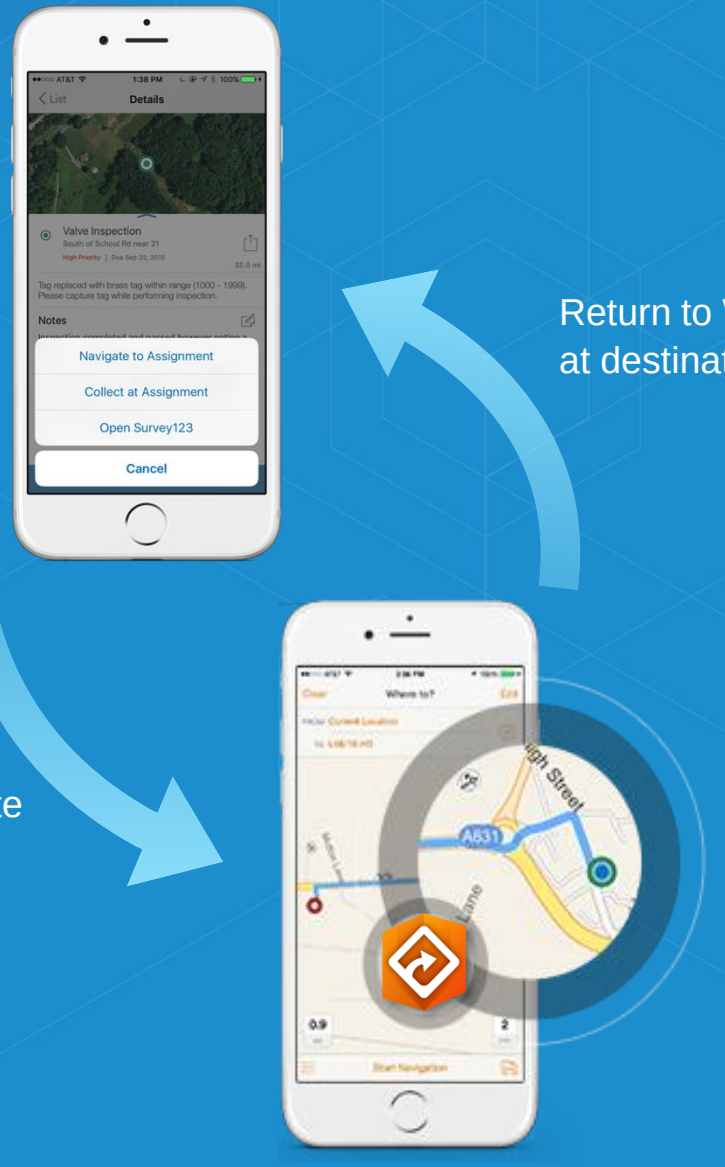
ANDROID APP ON Google play

Download from Windows Store

Workforce for ArcGIS | Get to assigned work

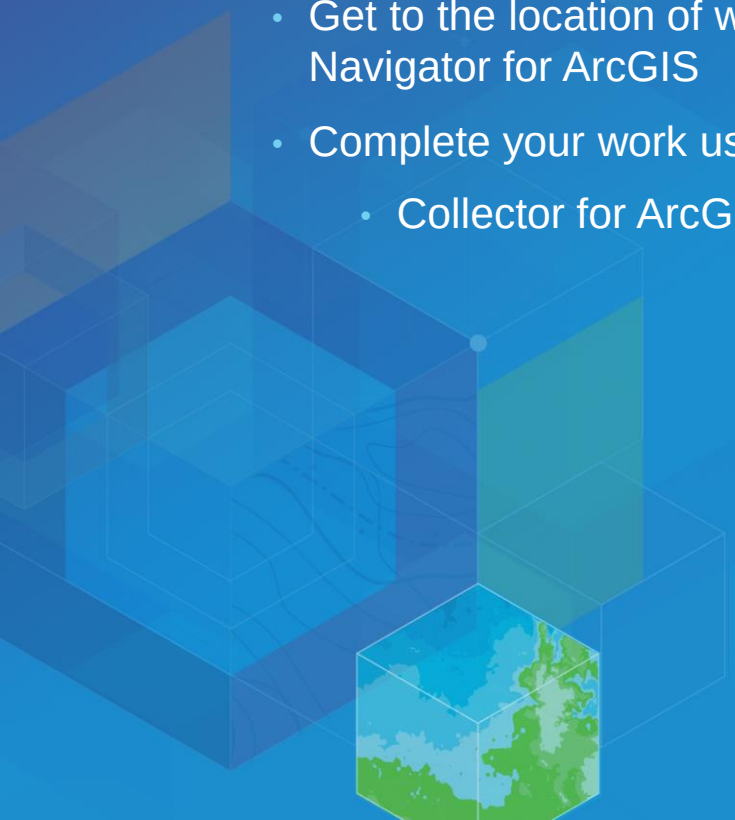
- Integrated with ArcGIS Apps so you can:
  - Get to the location of work assignments using Navigator for ArcGIS

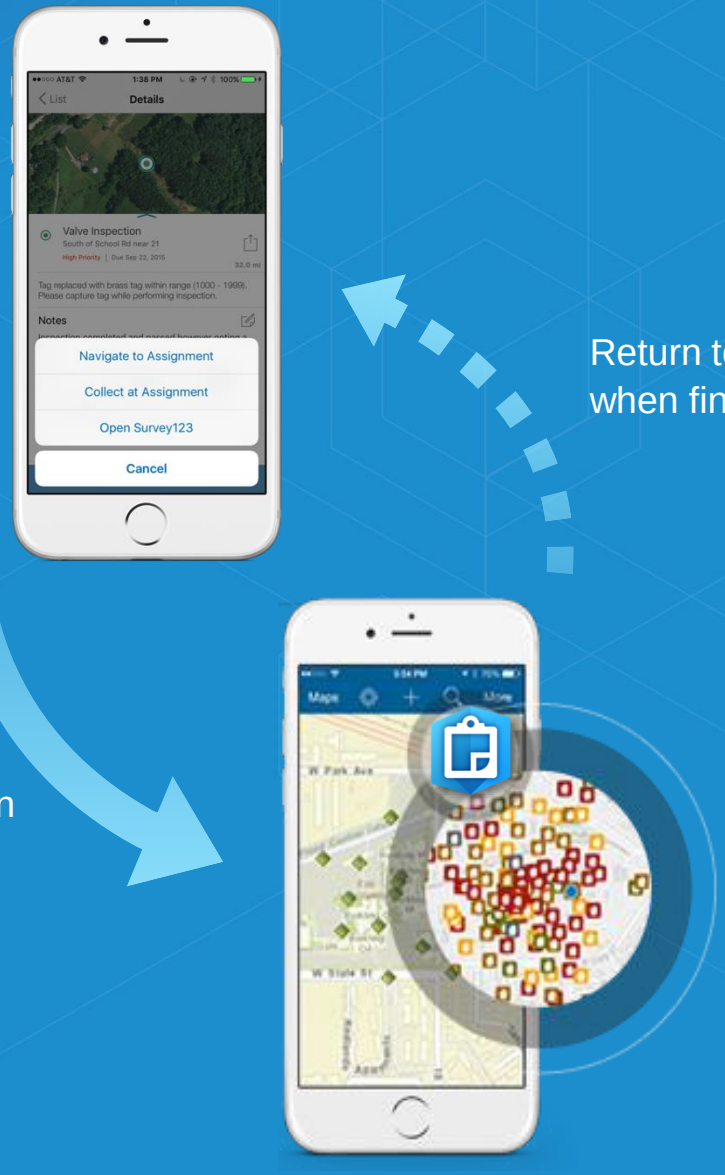




Workforce for ArcGIS | Collect at location

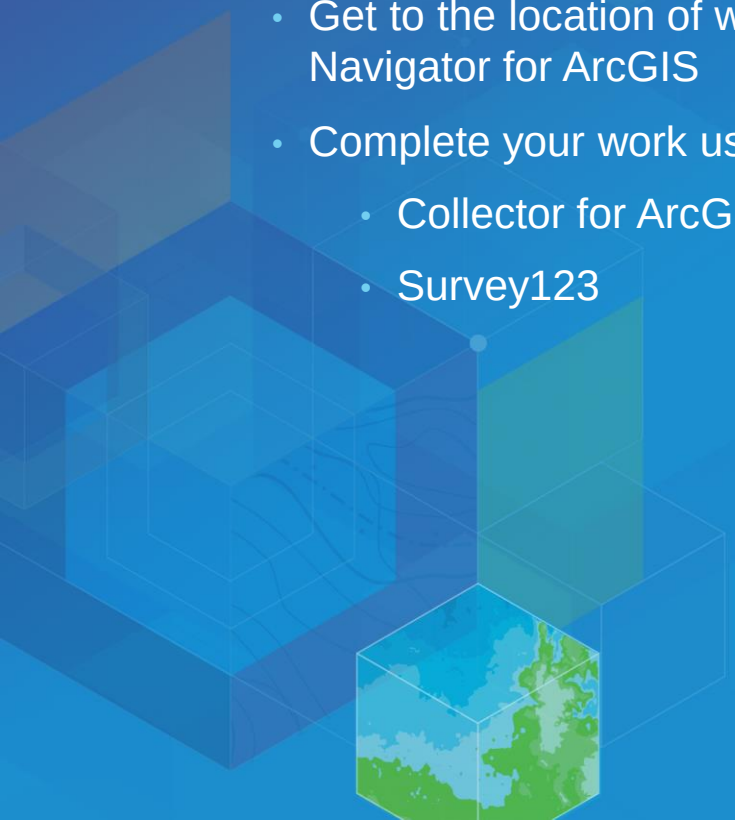
- Integrated with ArcGIS Apps so you can:
  - Get to the location of work assignments using Navigator for ArcGIS
  - Complete your work using:
    - Collector for ArcGIS

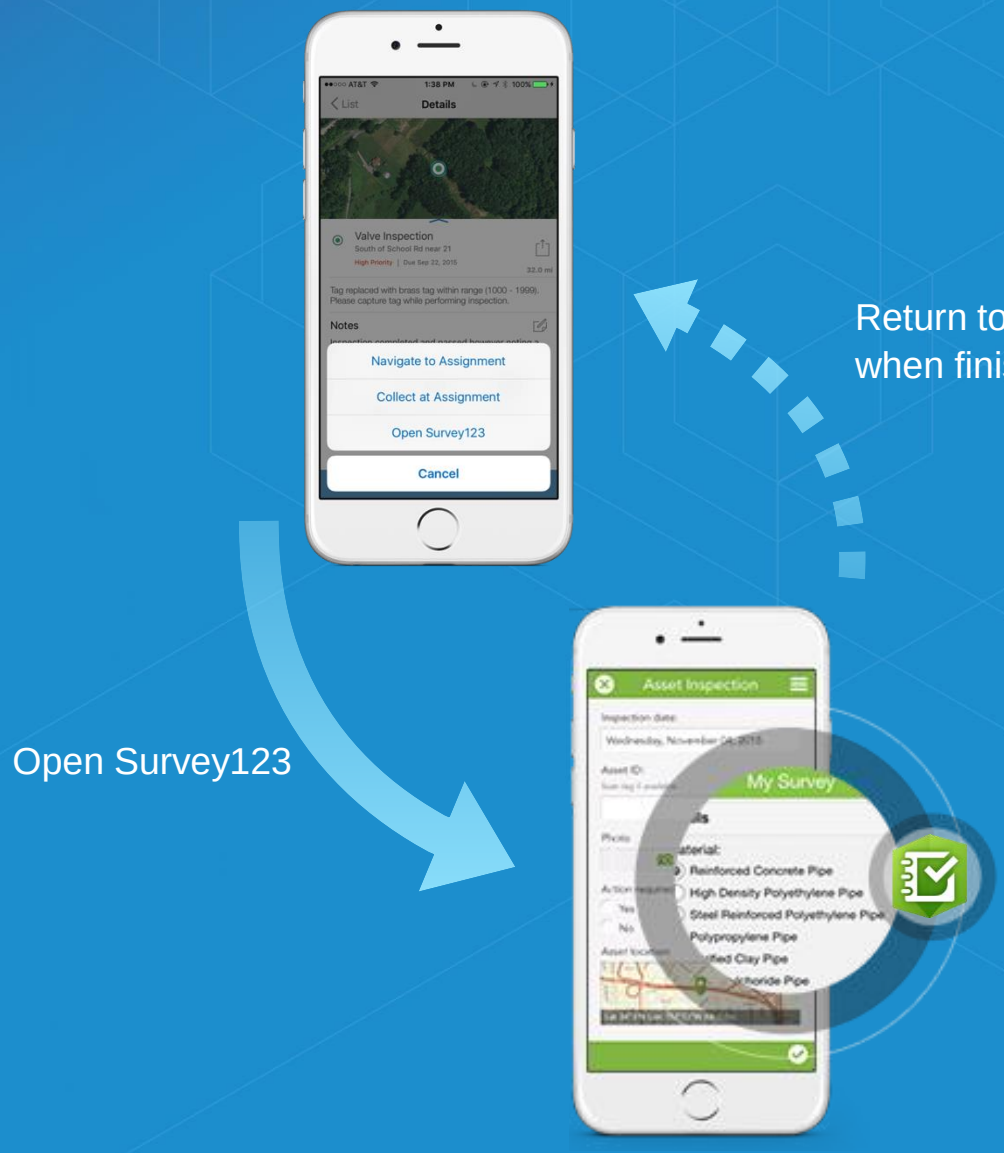




Workforce for ArcGIS | Survey at location

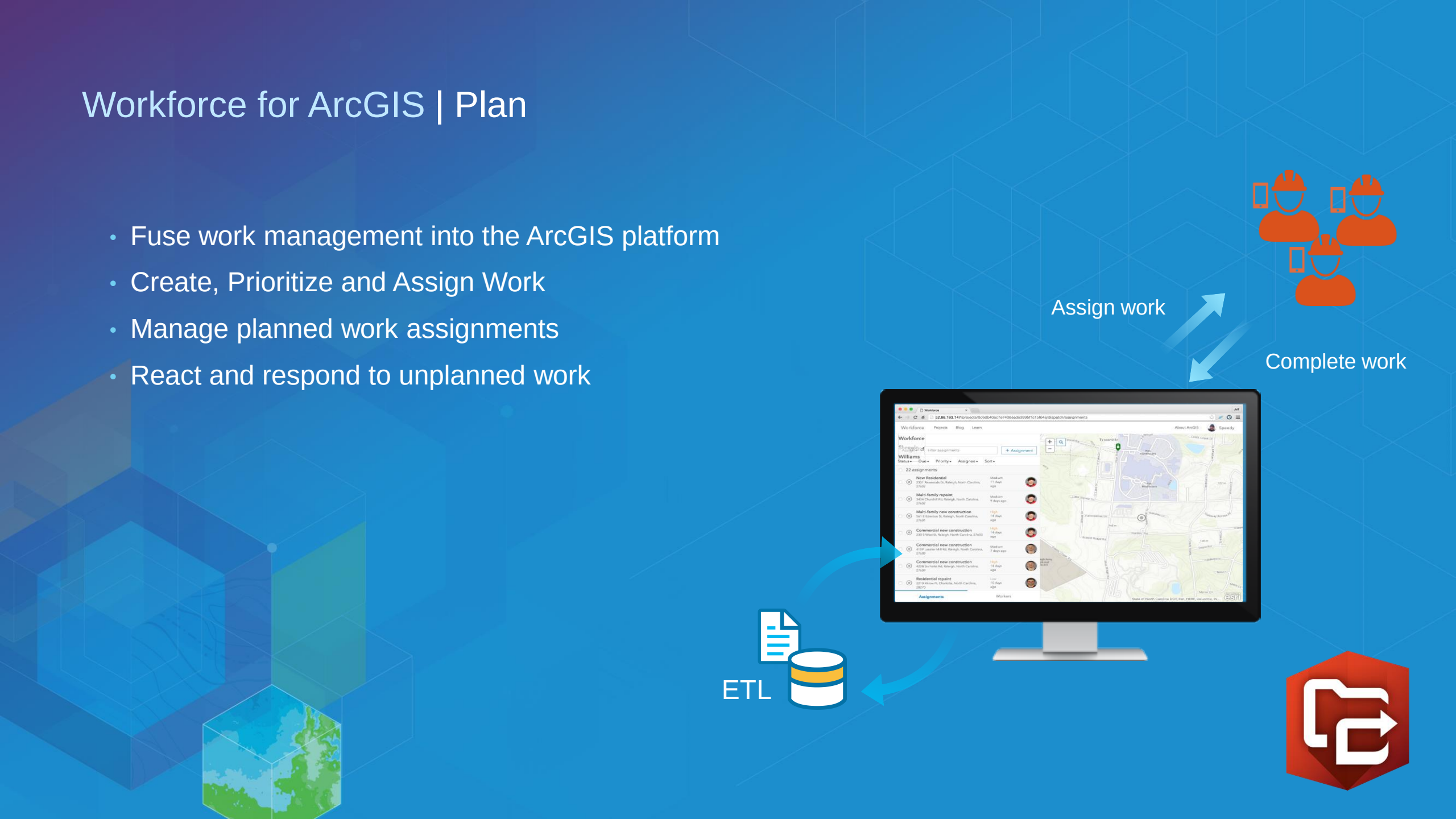
- Integrated with ArcGIS Apps so you can:
  - Get to the location of work assignments using Navigator for ArcGIS
  - Complete your work using:
    - Collector for ArcGIS
    - Survey123





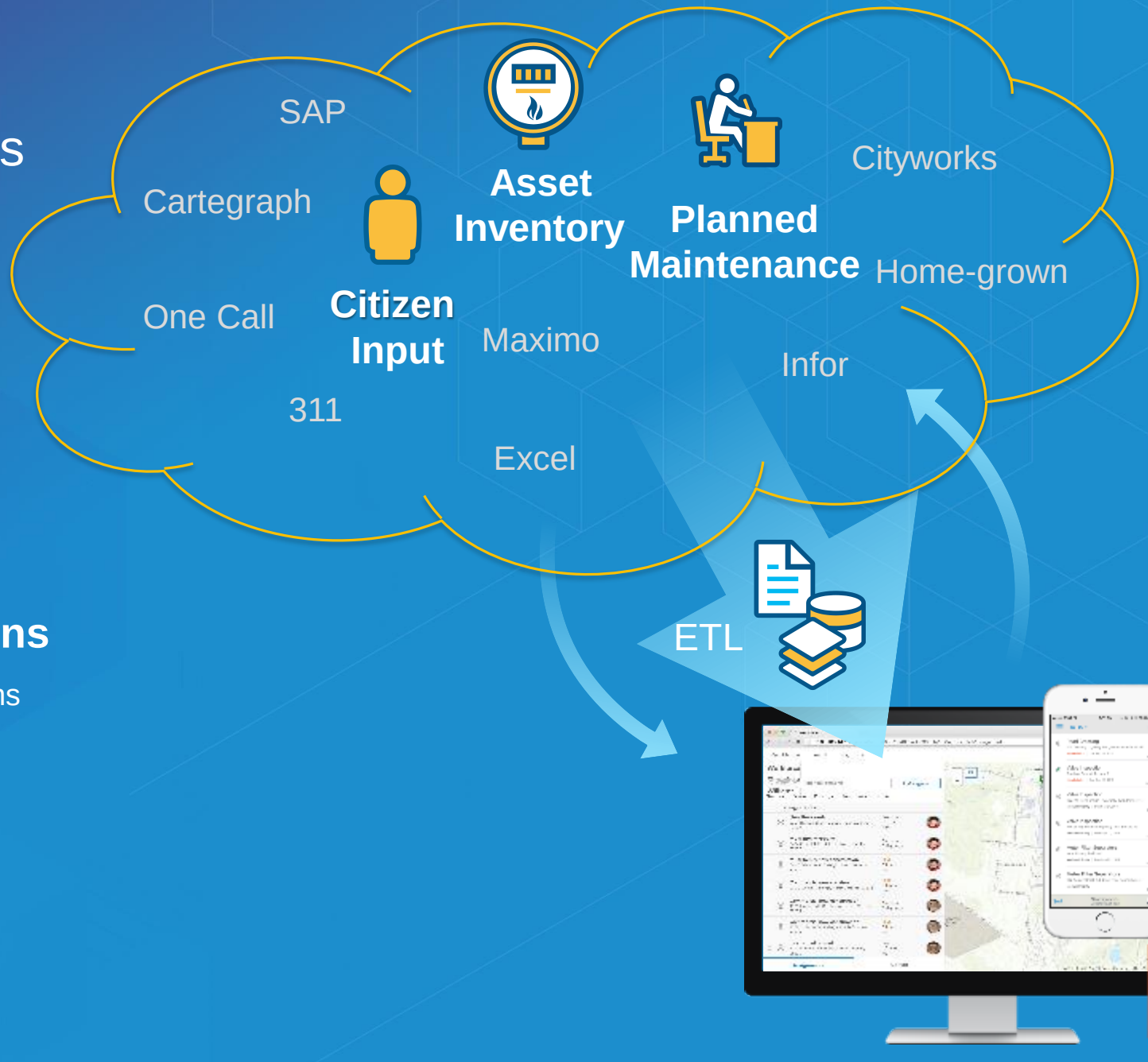
Workforce for ArcGIS | Plan

- Fuse work management into the ArcGIS platform
- Create, Prioritize and Assign Work
- Manage planned work assignments
- React and respond to unplanned work



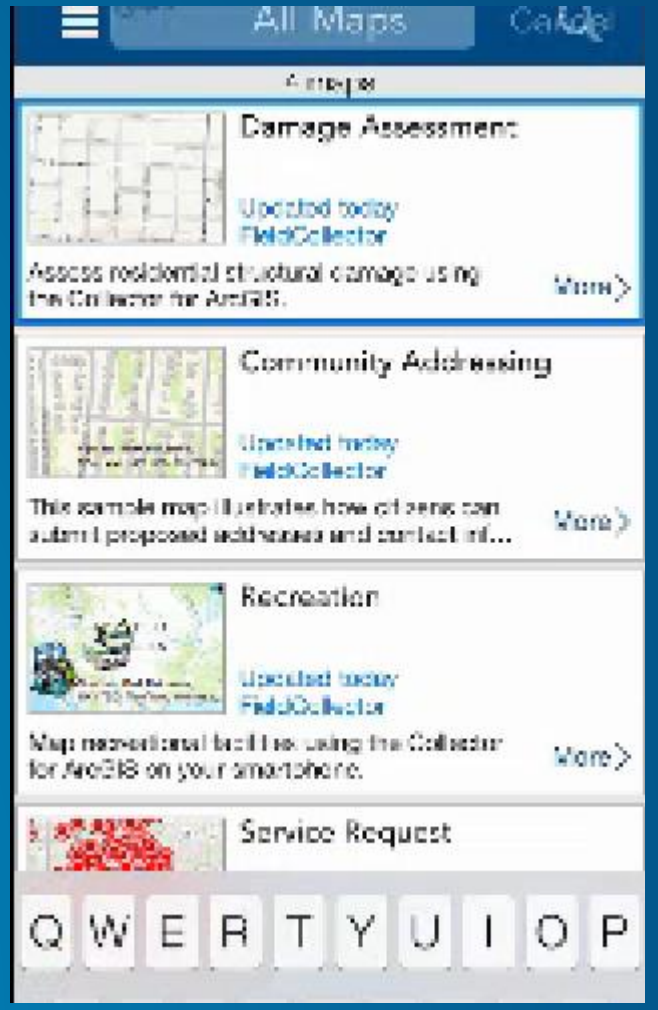
Workforce | Opportunities

- **Small organizations**
  - A location solution to replace paper-based workflows
  - Works seamlessly with ArcGIS apps for the field
- **Mid-to-large size organizations**
  - Complement work management systems
  - Partner opportunities
    - System Integrators
    - Customized solutions



Collector for ArcGIS

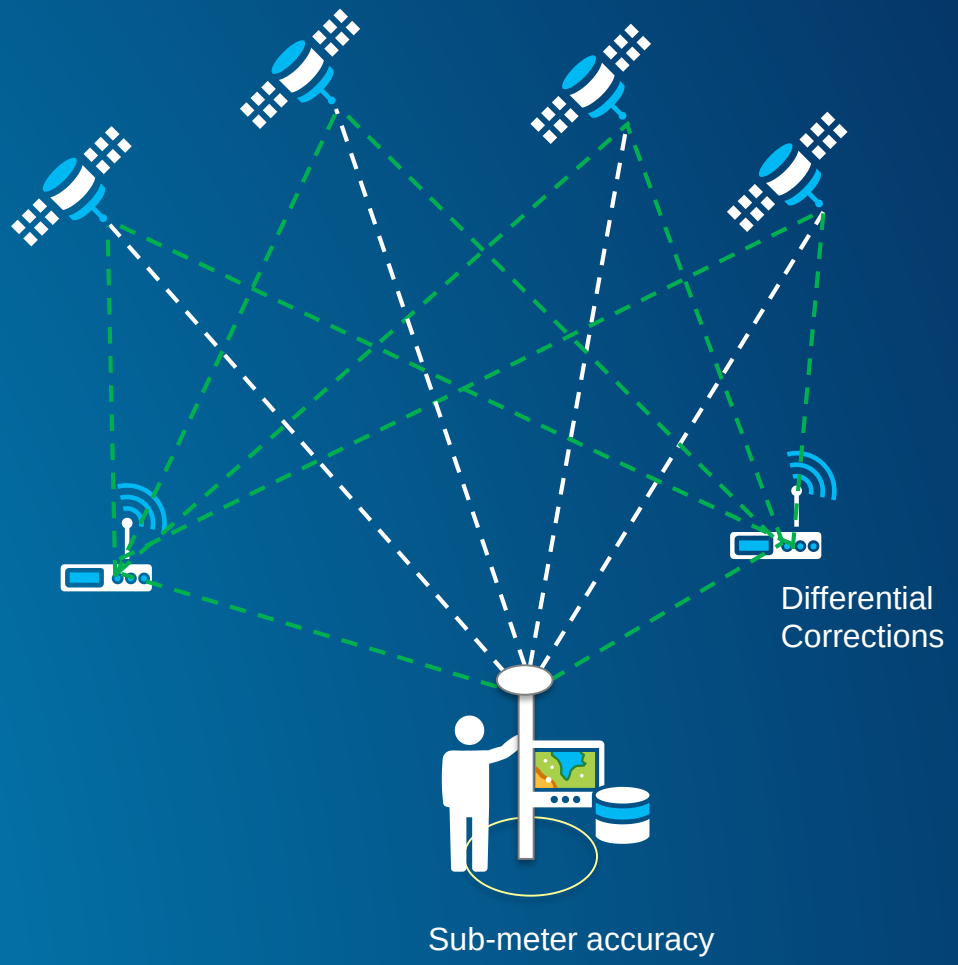
- Create and Share a Map
- Collect Data
- Go Offline
- Get Professional Grade Accuracy



Collector for ArcGIS – 10.4.0 Release Highlights

- **Support for High Accuracy Data Collection:**
  - **Set a location provider**
  - **Define a location profile**
  - **Attach accuracy information to your data**
  - **Receive alerts and notifications**

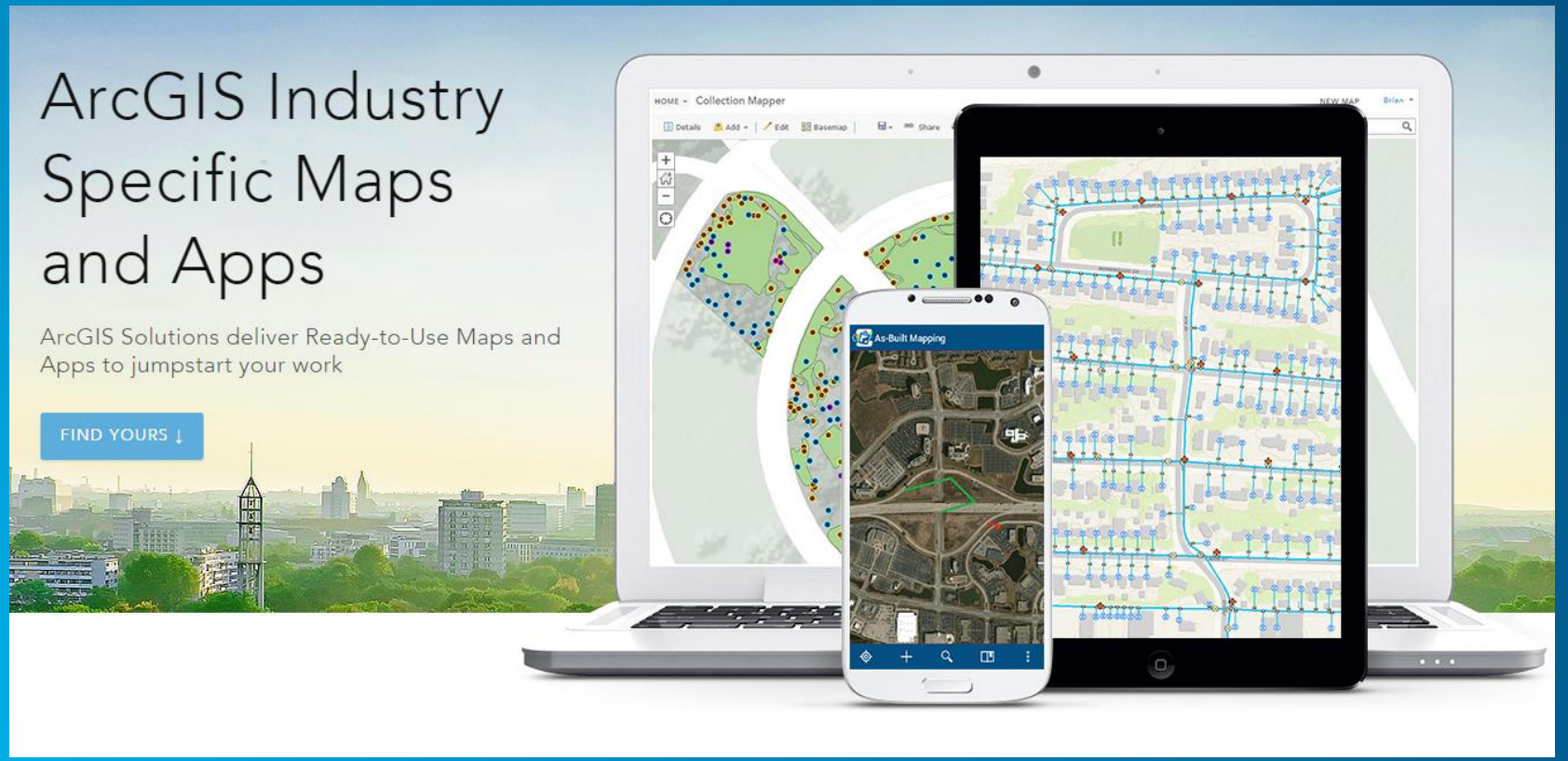
- **Released on iOS (July), Windows (August), and Android (October)**



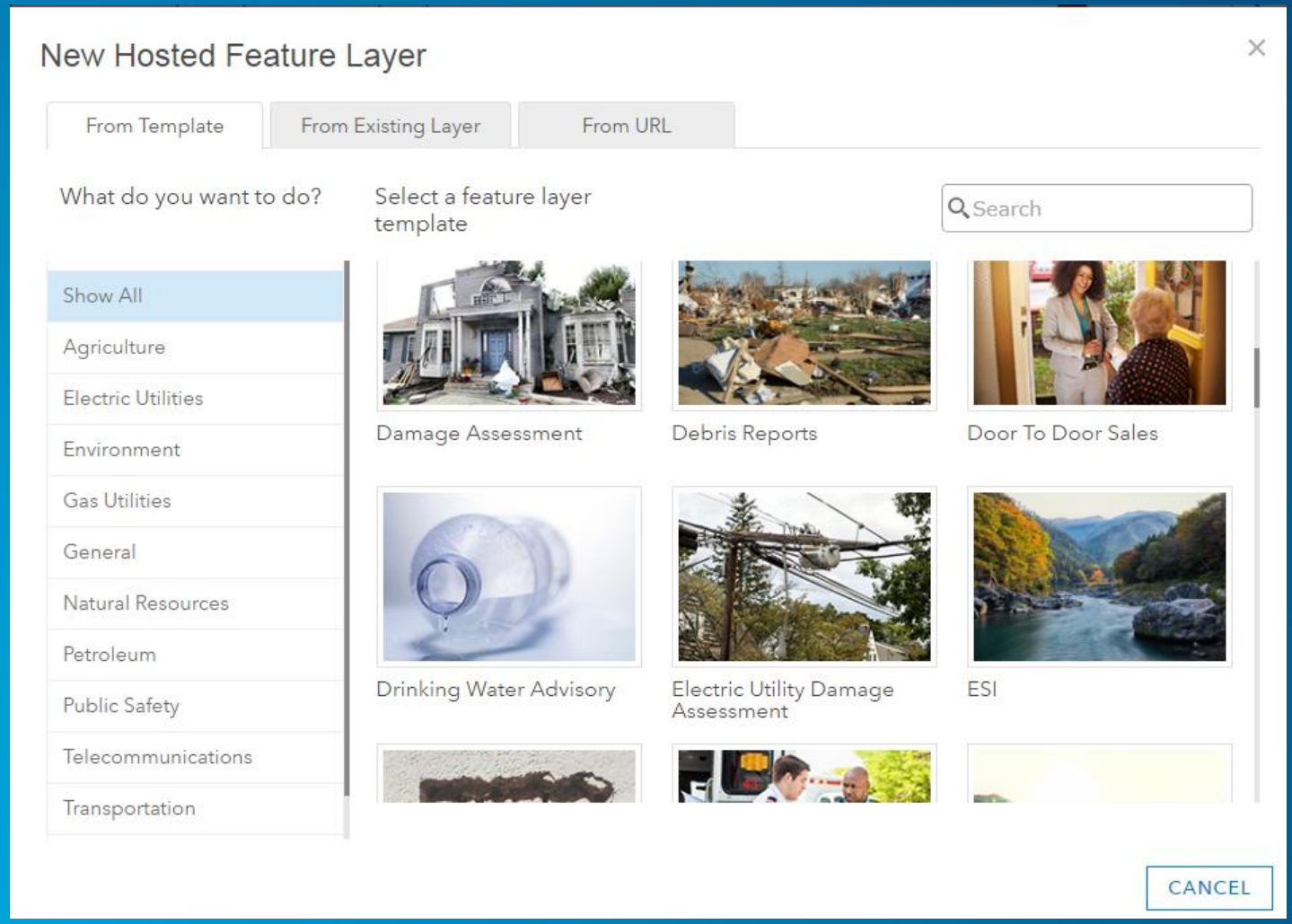
Collector for ArcGIS – Lots of Receivers

Collector for ArcGIS – solutions.arcgis.com

- ArcGIS Solutions (Search on Collector)

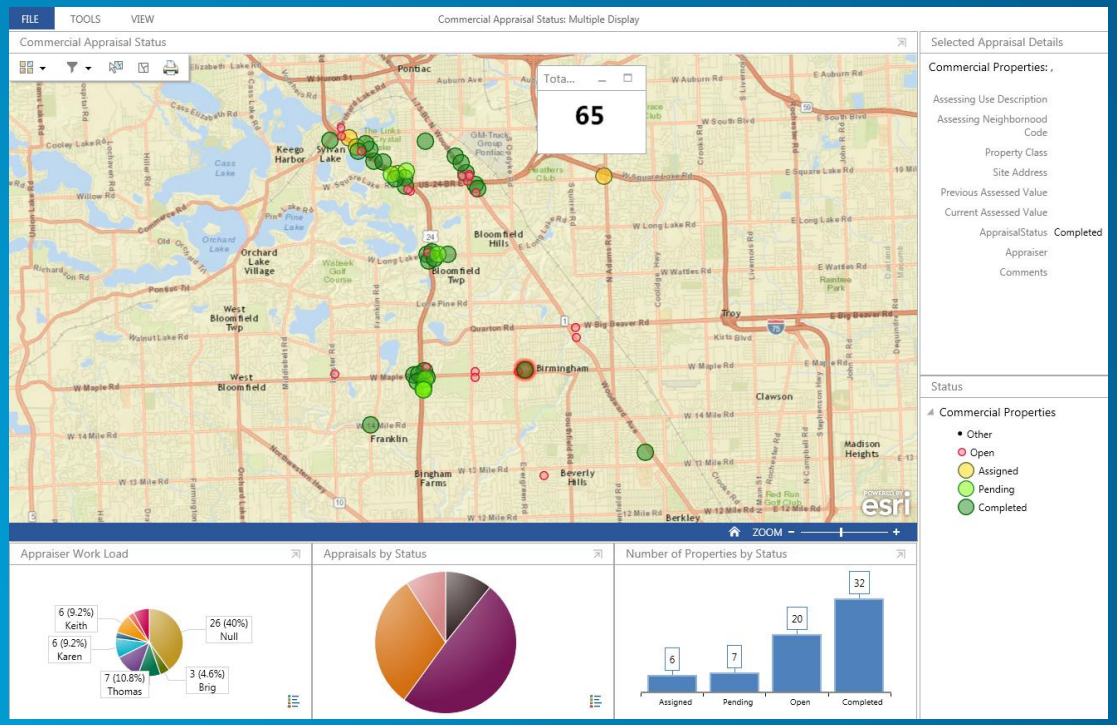


Collector for ArcGIS – Hosted Feature Layers



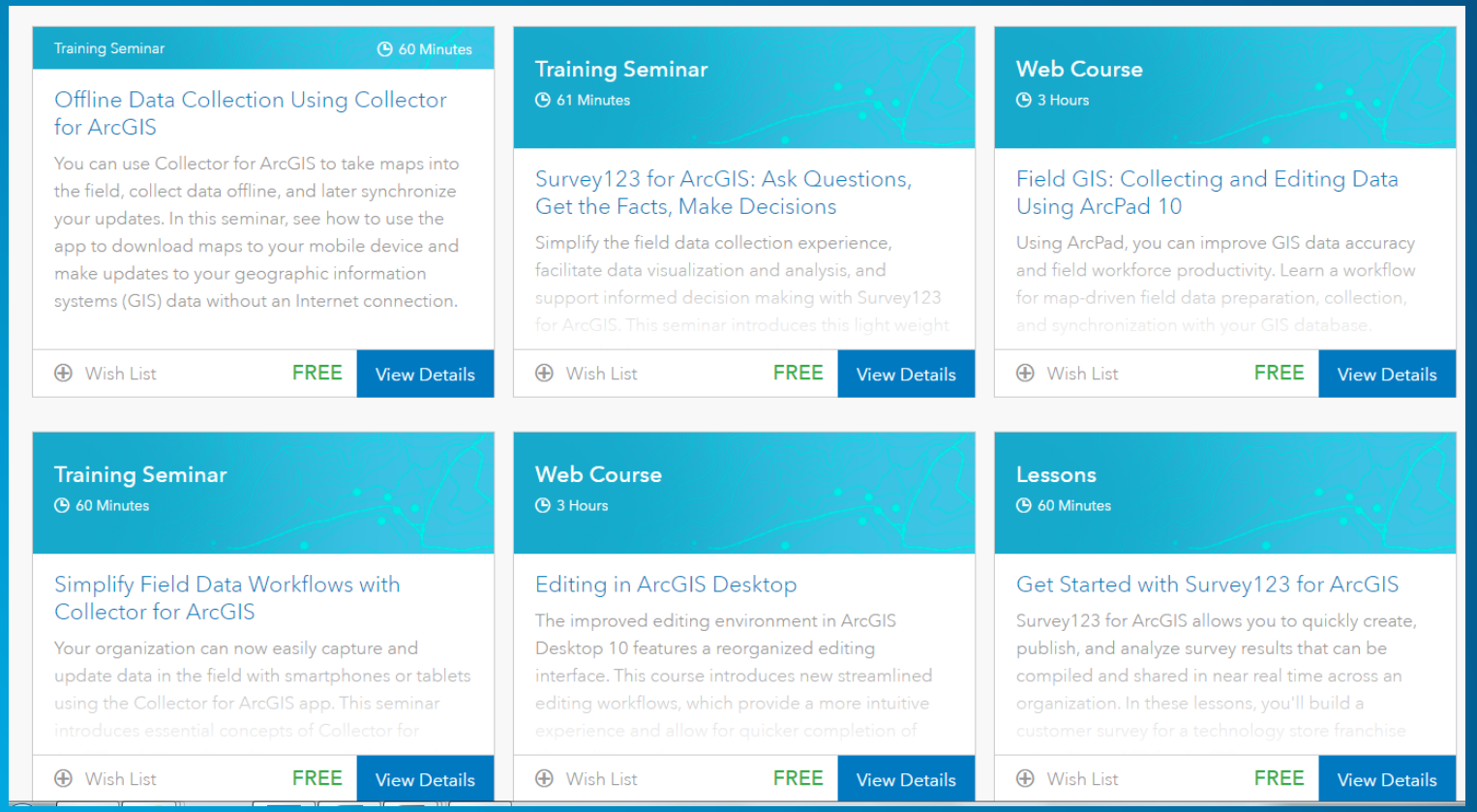
Operations Dashboard for ArcGIS

- **Monitor activities and events**
- **Track your field workforce**
- **Assess the status and performance of your daily operations.**



Training and Resources

- **Goto Esri Training>(Filter on) Data Collection and Management**



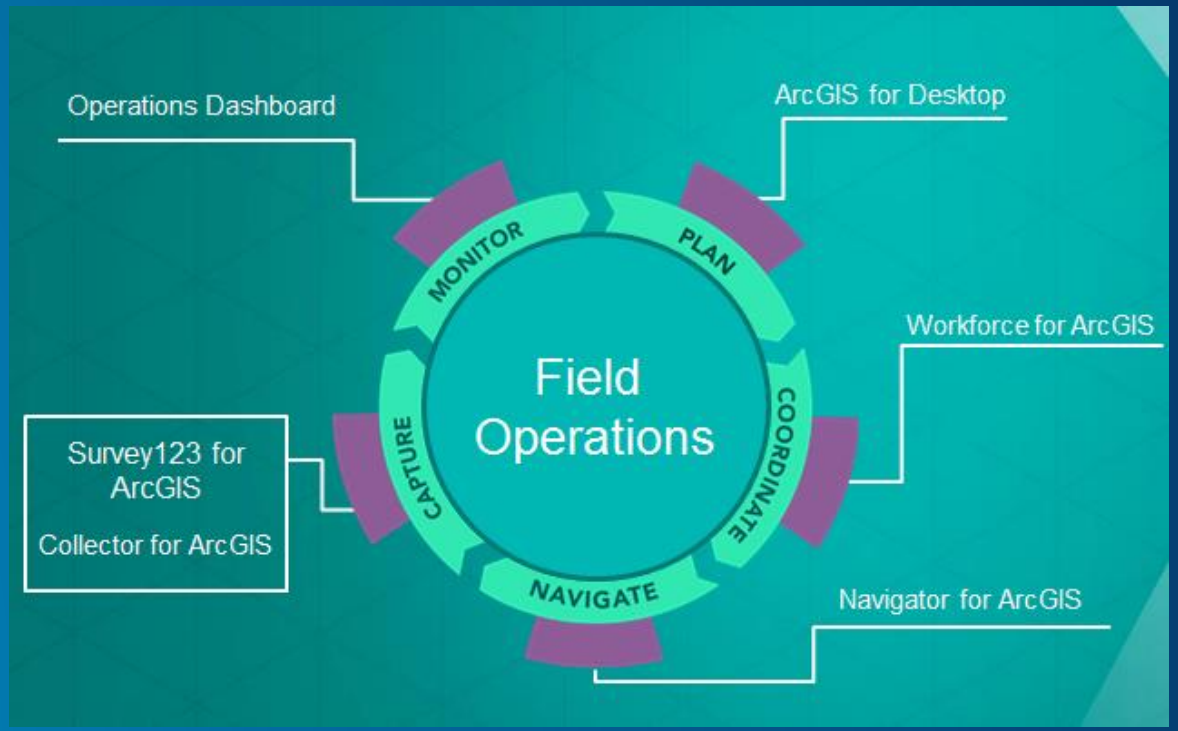
https://blogs.esri.com/esri/arcgis/category/mobile/

Survey 1,2,3

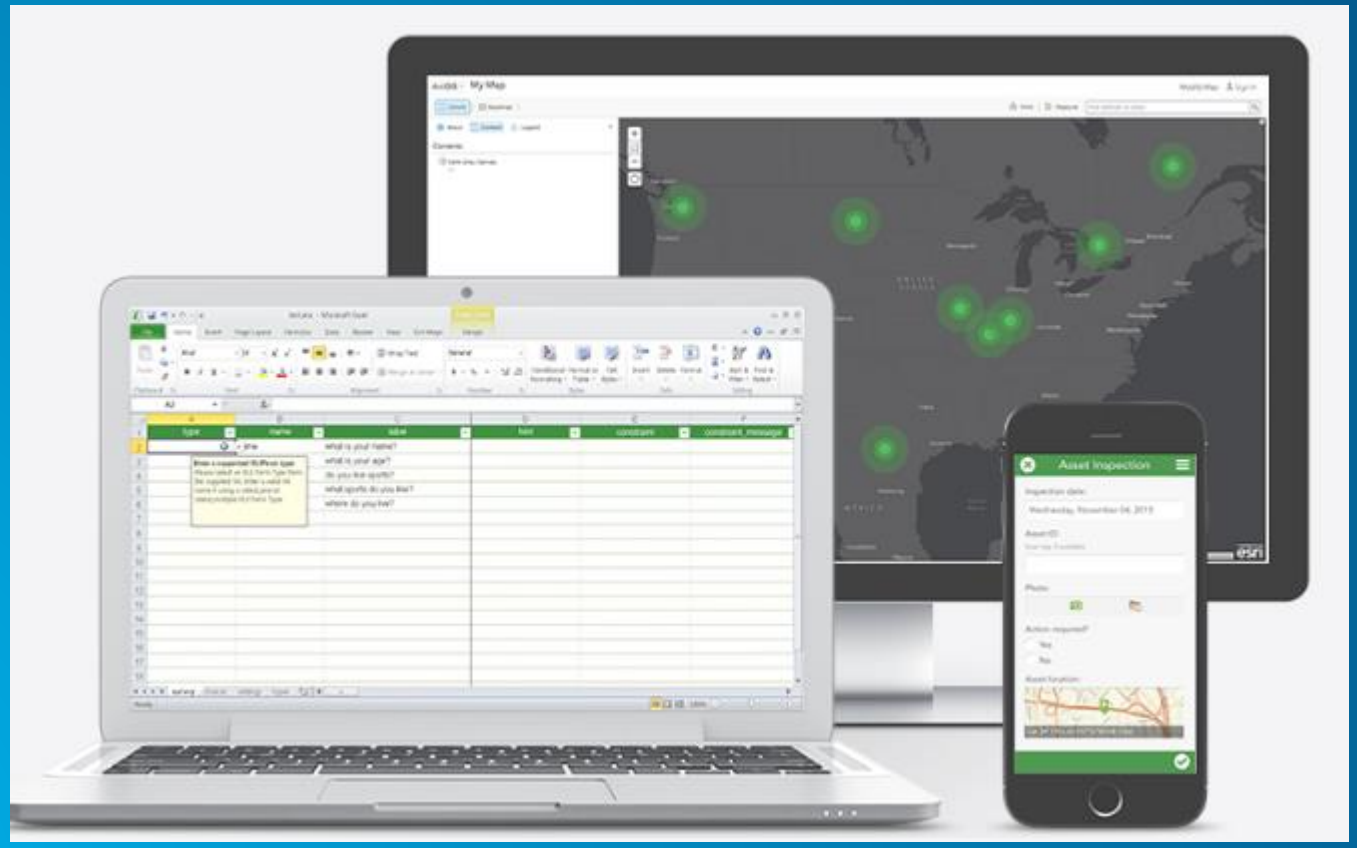
- Replace paper-based data collection with a digital solution that fits the needs of field personnel
- Create, Share and Analyze Survey
- Quickly design powerful surveys and publish them into ArcGIS
- Enable your workforce with the Survey123 for ArcGIS mobile app to capture answers in the field
- Monitor Results in Real Time
- Analyze answers from the field in ArcGIS to support decision making

Optimizing Field Operations with ArcGIS Apps.

- Plan with ArcGIS Desktop
- Coordinate Filed Personnel – Workforce
- Navigate – Navigator for ArcGIS
- Capture Data – Survey 1,2,3 or Collector
- Monitor – Operations Dashboard
- Questions?



Demonstration Survey 1,2,3



Workshop